

International Conference and Expo on **Audiology and Hearing Devices**

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Amplification options for patients with conductive or mixed hearing loss and single sided deafness: An otologist's perspective

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Objectives

- To update the audience on the latest developments in hearing loss management with surgical implant technology.
- To discuss the evolution of bone conduction hearing devices.
- To explore the clinical rationale behind choice of surgical hearing implantable devices including active and passive middle ear implants and cochlear implantation.

In the last 5 years the surgical implant world has seen an explosion of innovation for patients with mixed hearing loss, conductive hearing loss and single sided deafness. This includes percutaneous bone conduction devices (Cochlear BAHA, Oticon Ponto), transcutaneous bone conduction devices (Sophono, BAHA Attract), active transcutaneous bone conduction devices (MedEl Bonebridge, Oticon BCI) and also devices with their actuator coupled directly to the cochlea (MedEl Vibrant soundbridge, Codacs). The extensive choices of internal implantable devices and external processors make the rationale for the choice of treatment more complex and challenging. With regard to these new devices, safety, stability, complexity of surgery, risks of surgery and the economic considerations will be explored.

Biography

Allan Ho is an Associate Professor in the Department of Surgery, Faculty of Medicine at the University of Alberta. He is an otologist, cochlear implant and lateral skull base Surgeon in the Division of Otolaryngology Head and Neck Surgery. He serves on several local, national and international scientific committees. He chairs the Canadian Otolaryngology subspecialty group of the Canadian Society of Otolaryngology. He is the Director of the Edmonton Ear Clinic. He graduated from the University of Newcastle, UK. He obtained fellowship training in otology, neurotology and skull base surgery in Halifax, Nova Scotia.

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